

Fourth Annual Navy Workforce Research & Analysisa Conference, Studies, & Technology



Introduction

Officer Community Management (OCM)

Billet management, promotion, accessions, retention, force shaping, and training oversight

Works w/Detailer on career requirements and balancing the needs of the Navy



Functional Problems

- **Not** enough 0-4's for DH
- DH tour lengths too long
- DH billets down-graded to DIVO billets
- Training lengths too long and number of billets needed not clear
- Best timing of training not clear
- Impact of additional gate requirements (Joint duty)
- What happens if decommission/commission X ships
- What if redefine/initialize a new community



Technical Approach

 Discrete entity-based simulation - variables (individuals) change instantaneously at separate points in time

Entities/events

- Attributes pertinent to career path
- Promotions
- Continuation and losses
- Gains

States

- Officer Programmed Authorizations (OPA) is given by paygrade
- Career related milestones



Conversion to Milestones

Individual Entity:





Gender, YG, PG

Tour DH, XO, CO

Billet Resource:





Underlying Business Rules

- Nominal career path
 Timeline of statutory boards
 Where milestone (DH, XO, CO) occurs per community
- Billets

Determining quality (subspecialty), level of responsibility

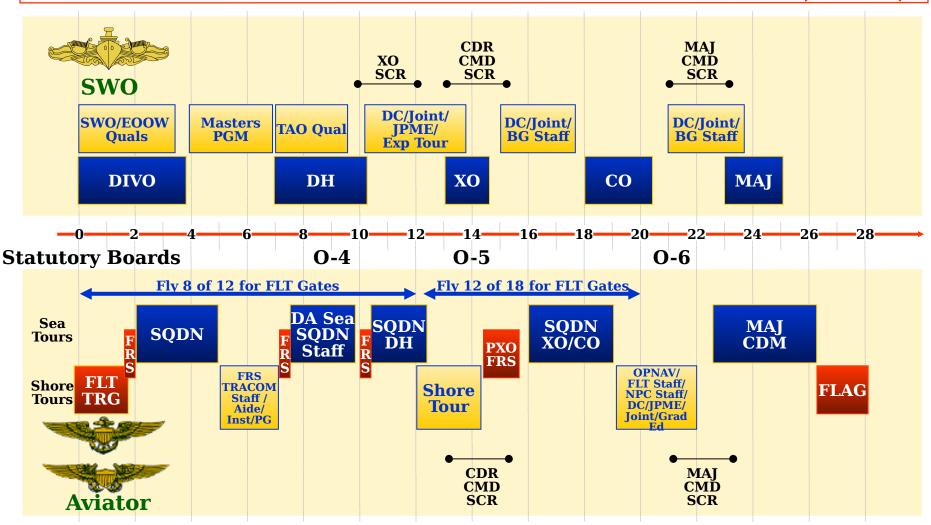
Quantity (Paygrade (PG), milestone)

- Inventory (Years of Commissioned Service (YCS), PG, gender, and milestone)
- Community shaping "policy" & metrics
 Continuation, promotion, tour lengths, laterals,

Mirrors the Career Development Community Planning Process

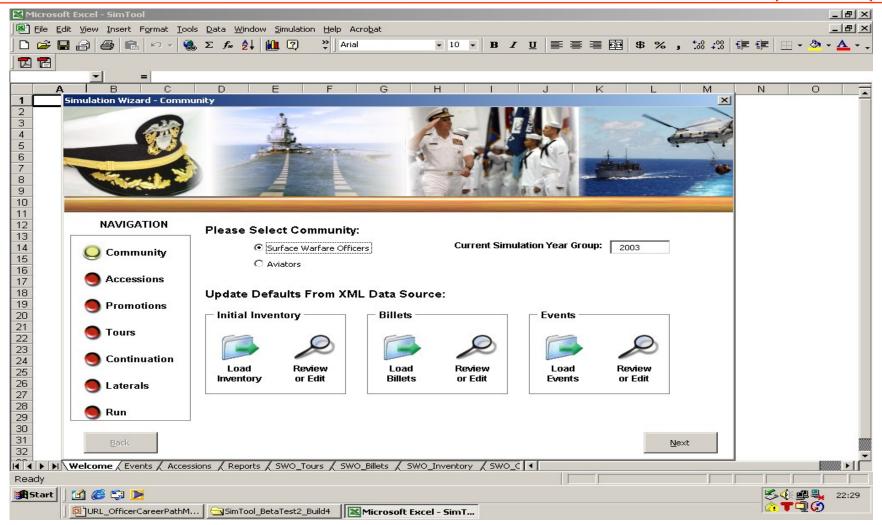


Nominal Career Path



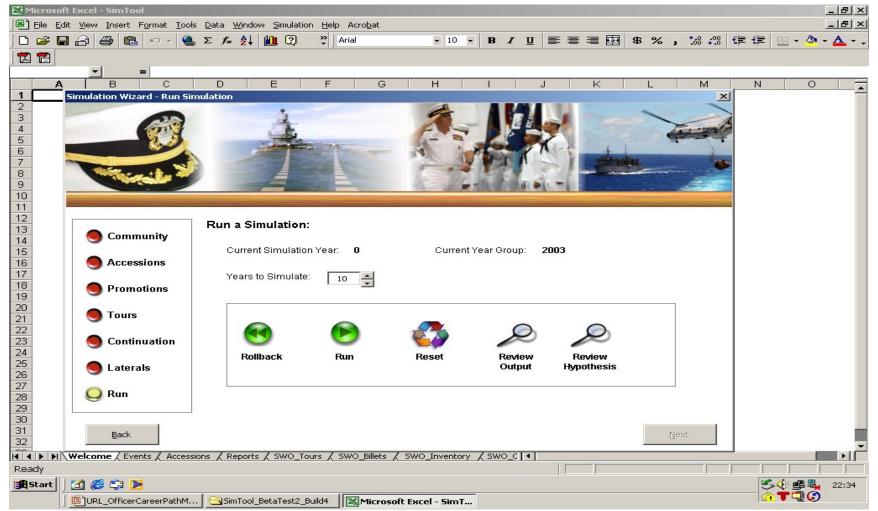


Community Modeling Screen





Run Simulation Screen





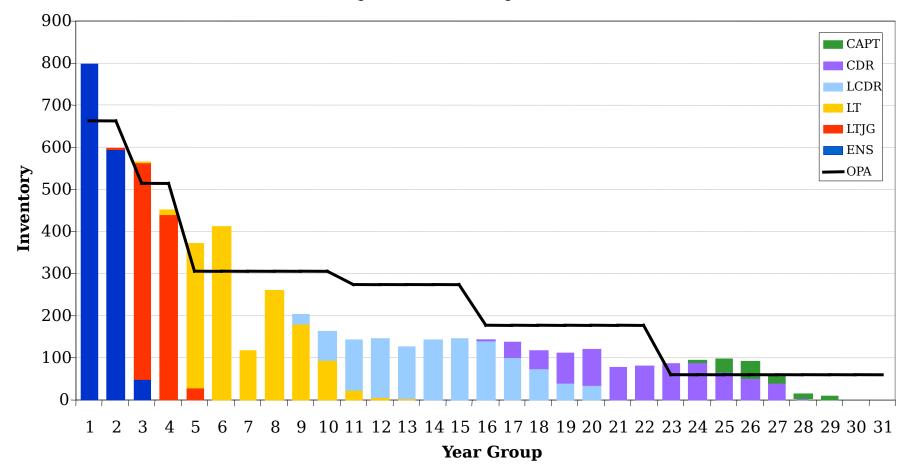
OCM Metrics

- Continuation rates (MSR & survival rates)
- Accessions and laterals
- Total community inventory vs. requirements
 Table rank, YCS and gender
 Inventory OPA difference by rank
 Milestone inventory vs. milestone billets
- Flow point (average time to make rank)
- Tour length (in milestone billets DH, XO, CO, MC)
- Opportunity (rank and milestone)





Total Inventory vs. OPA by Rank - Simulation Year: 2004

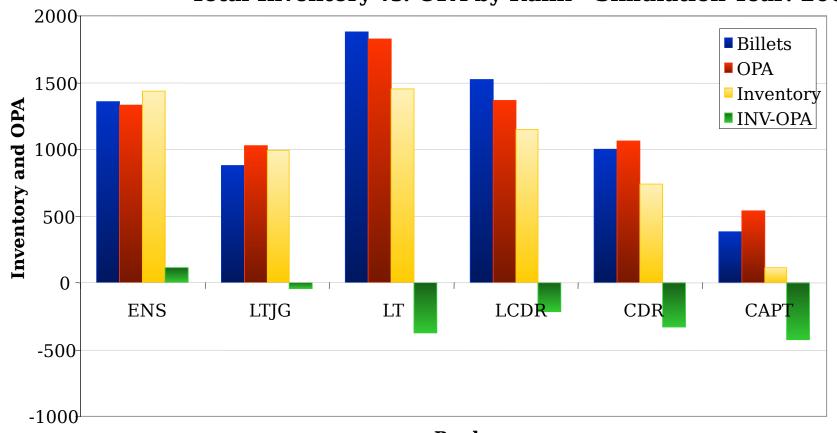


NPRST

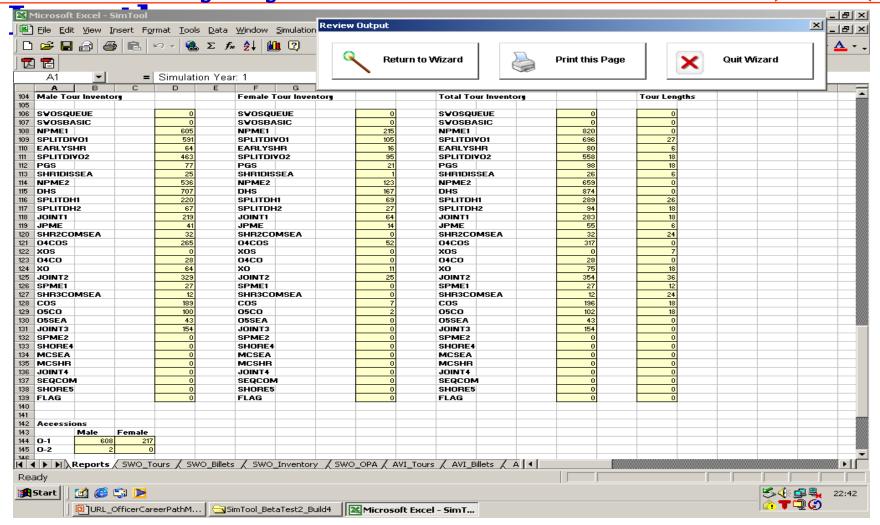
Metrics: Inventory vs. Requirement by

Rank

Total Inventory vs. OPA by Rank - Simulation Year: 2004

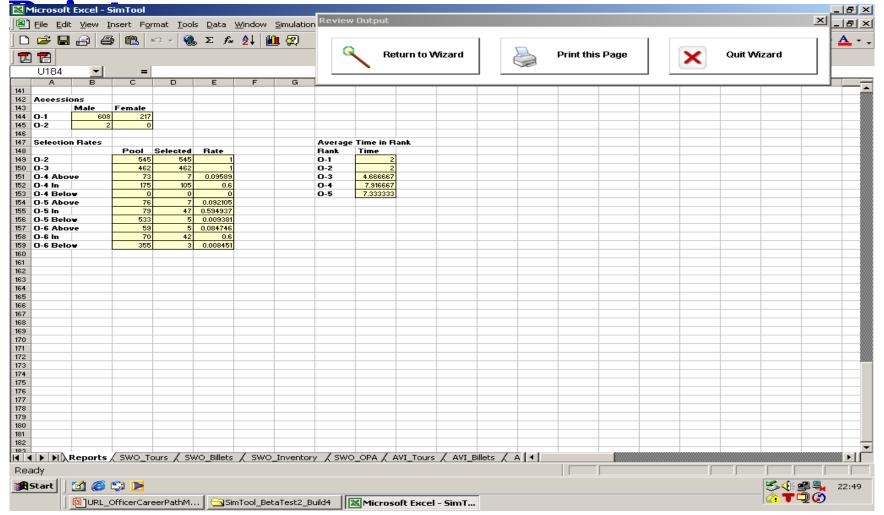


Metrics: Inventory by Milestone and Tour



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Metrics:Rank Opportunity and Flow



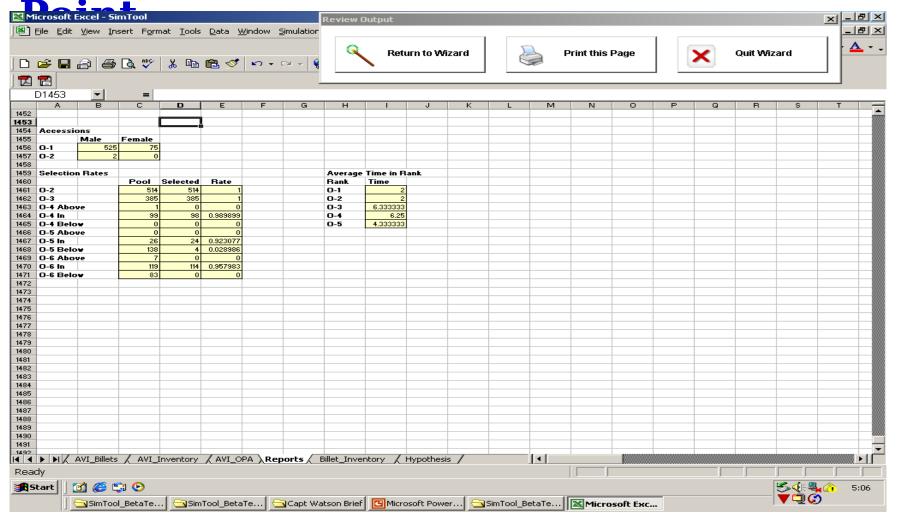


Analysis Scenarios

Scenario	Model Analysis	Metrics					
Reduce the accession of SWO Officers by 7% until a steady state value of 600	(1) Adjust accession input (2) increase continuation rate from historical (3) Follow DOPMA promotion rates.	(1) Inventory Difference by rank, (2) Average Time In Rank summed to Flow Point (3) Promotion Rates.					

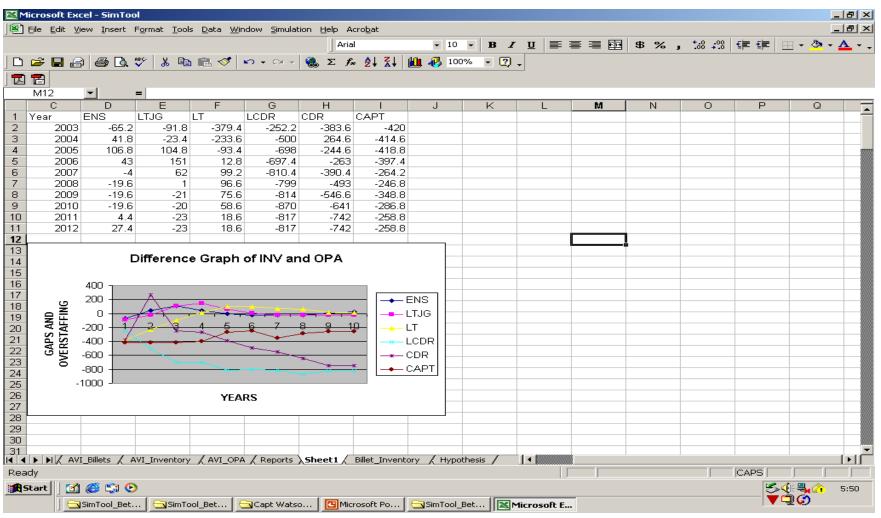
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Metrics:Rank Opportunity and Flow

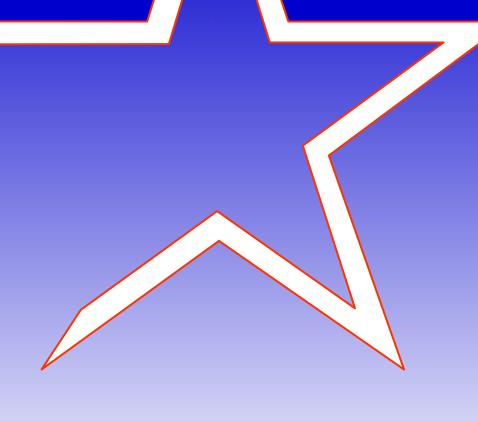




Metric: Difference Graph of INV and OPA

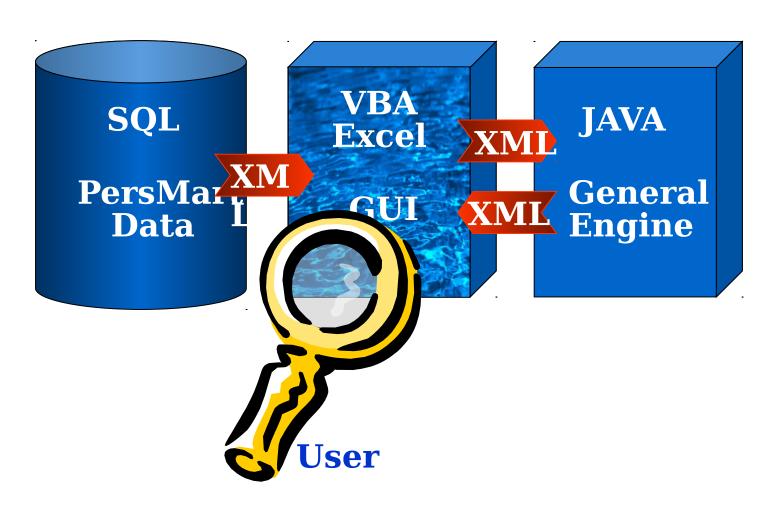








Model Software Architecture



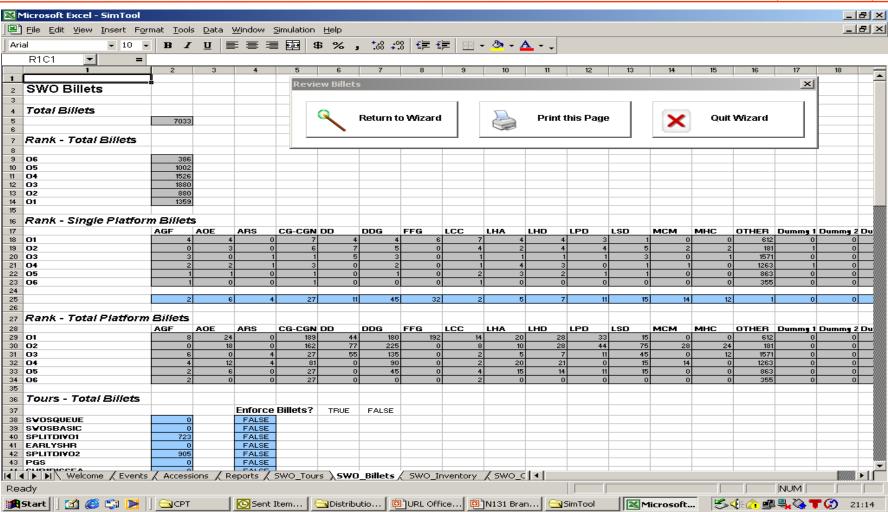
Review Inventory by Rank & YCS



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Billet Review





Objective

- Support the OCMs with their mission:
 - " ...to attract and retain the necessary quantity and quality of officers to ensure the safe and effective manning and employment of all Naval platforms"
- Provide a model that assist with milestone level inventory planning
- Provide a model that simulates career progression w/i billet constraints (decrease stagnation and gaps)
- Provide a tool that shows the impact when manipulating community management policies for better planning



Background

- In FY01, the Chief of Naval Personnel initiated an effort to study the career path of an officer within the Unrestricted Line (URL) Community
- Additionally, included in the N1 Guidance for FY03, review URL career paths so that it better prepares, educates, and develops Officers to led our Sailors and meet operational requirements through to flag rank



Model Assumptions

- Continuation rates (historical, adjustable)
- Promotion rates are NOT gender specific
- One qualifying billet per rank
- Lateral transfers are on track and occur in pertinent YCS per rank
- Laterals out modeled as a loss
- Transient time of 1 month is added to tour lengths
- IA includes Officers in training

Strength numbers provided by N131 (Officer Strength) Officer Community Overview



